AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application.

- (currently amended) <u>Peptide nucleic</u>Peptide-nucleic- acid (PNA) comprising 12 to 24 nucleotide bases, said <u>peptide nucleic</u>Peptide-nucleic- acid being complementary to the sense or antisense filament of human N-myc gene.
- (currently amended) The <u>peptide nucleicpeptide nucleic-</u> acid (PNA) according to claim
 in which antisense PNA (5'-TCCACCCAGCGGTCC-3') is an only sequence complementary to 5'-UTR region of human N-myc gene.
- (currently amended) The <u>peptide nucleicpeptide-nucleic-</u> acid (PNA) according to claim
 in which PNA is conjugated with a carrier that can get through the nuclear membrane of target cells expressing N-myc gene.
- 4. (currently amended) The conjugated <u>peptide nucleicpeptide nucleic</u> acid (PNA) according to claim 3, in which said carrier is conjugated in 3' position to PNA sequence.
- (currently amended) The <u>peptide nucleic-peptide-nucleic-</u> acid (PNA) according to claim
 in which said carrier is chosen among the following peptide sequences:

 PKKKRKV.

RQIKIWFQNRRMKWKK:

GWTLNSAGYLLGKINLAALAKKIL:

(D)-KKWKMRRNQFWVKVQR;

GRKKRRORRRPPO-

YGRKKRRQRRR:

MSVLTPLLLRGLTGSARRLPVPRAKIHSL:

KEEKEEKEEK:

KKKK

- 6. (currently amended) The peptide nucleic peptide nucleic- acid (PNA) according to claim
- 3, in which conjugated PNA is a sense <u>anti-geneantigen</u> PNA or an antisense <u>anti-geneantigen</u> PNA.
- 7. (currently amended) The peptide nucleic peptide-nucleic- acid (PNA) according to claim

- 6, in which sense <u>anti-gene</u>antigen PNA or antisense <u>anti-geneantigen</u> PNA (5'-ATGCCGGGCATGATCT-3'; antisense <u>anti-geneantigen</u>: 5'-AGATCATGCCCGGCAT-3') are complementary to a exonexene 2 sequence of N-myc gene.
- (currently amended) The <u>peptide nucleicpeptide-nucleic-</u> acid (PNA) according to claim 3, in which sense <u>anti-geneantigen PNA</u> or antisense <u>anti-geneantigen PNA</u> are conjugated in 3' with a nuclear localization signal (NLS) deriving from SV40 virus (peptide sequence PKKKRKV).
- 9. (currently amended) A pharmaceutical composition comprising a <u>peptide nucleicpeptide-nucleic-acid PNA according to claim 1.</u>
- 10. (currently amended) A method to treat genetic diseases comprising the step of using a peptide nucleic Use-of-a peptide nucleic-acid PNA according to claim 1-for-preparing-a pharmaceutical-composition for treating-genetic diseases.
- (currently amended) <u>The method</u> <u>Use of a peptide nucleic acid PNA</u> according to claim
 wherein the genetic diseases are for preparing a pharmaceutical composition for treating tumors associated to the expression of N-MYC protein.
- 12. (currently amended) <u>The method Use of a peptide nucleic acid PNA</u> according to claim 10, <u>wherein the genetic diseases are for preparing a pharmaceutical composition for treating tumors <u>selected from the group consisting of euch as</u> neuroblastoma, retinoblastoma, medulloblastoma, glioblastoma, astrocytoma or lung small cell tumor, rhabdomyosarcoma, and B-type lymphoblastic acute leukemias.</u>
- (currently amended) The <u>peptide nucleic-peptide-nucleic-</u> acid (PNA) according to claim
 in which said carrier is chosen among the following peptide sequences:

PKKKRKV:

RQIKIWFQNRRMKWKK;

GWTLNSAGYLLGKINLAALAKKIL:

(D)-KKWKMRRNOFWVKVOR:

GRKKRRQRRRPPQ:

YGRKKRRQRRR;

MSVLTPLLLRGLTGSARRLPVPRAKIHSL:

KFFKFFKFFK;

KKKK.

- 14. (currently amended) The <u>peptide nucleicpeptide nucleic</u> acid (PNA) according to claim 4, in which conjugated PNA is a sense <u>anti-geneantigen</u> PNA or an antisense <u>anti-geneantigen</u> PNA.
- 15. (currently amended) The <u>peptide nucleicpeptide nucleic</u> acid (PNA) according to claim 5, in which conjugated PNA is a sense <u>anti-geneantigen</u> PNA or an antisense <u>anti-geneantigen</u> PNA.
- 16. (currently amended) The <u>peptide nucleicpeptide-nucleic-acid (PNA)</u> according to claim 14, in which sense <u>anti-gene</u>antigen PNA or antisense <u>anti-gene</u>antigen PNA (5'-ATGCCGGCATGATCT-3'; antisense <u>anti-geneantigen</u>: 5'-AGATCATGCCCGGCAT-3') are complementary to a <u>exonexone</u> 2 sequence of N-myc gene.
- 17. (currently amended) The <u>peptide nucleicpeptide nucleic</u> acid (PNA) according to claim 15, in which sense <u>anti-gene</u>, anti-gene, anti-gene, anti-gene, anti-gene, anti-gene, anti-gene, 5'-AGATCATGCCCGGCAT-3') are complementary to a <u>exone</u> sequence of N-myc gene.